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FILE 'EUROPATFULL, PATDPAFULL, PCTFULL, RDISCLOSURE, USPATFULL, USPAT2'
ENTERED AT 16:06:28 ON 09 MAR 2004

E SMITH FORREST/IN

L1 17 S E3, E8

FILE 'CAPLUS' ENTERED AT 16:08:15 ON 09 MAR 2004

L2 1 S E8

E SMITH FORREST/AU

L3 35 S E5-E6

L4 6 S L3 AND ANESTHE?

L5 5 S L4 AND (IBUTILIDE OR BUPIVACAINE OR ?CAINE)

L6 1 S L5 AND (IBUTILIDE OR METHANESULFONAMIDE)

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L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:675806 CAPLUS
 DOCUMENT NUMBER: 137:195596
 TITLE: **Ibutilide and methanesulfonamide**
 for local **anesthetics**
 INVENTOR(S): **Smith, Forrest L.; Lindsay, Raymond**
 PATENT ASSIGNEE(S): Virginia Commonwealth University, USA
 SOURCE: PCT Int. Appl., 34 pp.
 CODEN: PIXXD2
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 PATENT INFORMATION:

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WO 2002067896	A1	20020906	WO 2002-US5304	20020221
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2002161018 A1 20021031 US 2002-78658 20020221				

PRIORITY APPLN. INFO.: US 2001-270608P P 20010223

AB The efficacy of amide- and ester-linked local **anesthetics** is increased by administering **methanesulfonamide** compds. (e.g., **ibutilide** and **sotalol**) as adjuvants with the local **anesthetics**. The effectiveness of these compds. as adjuvants is further increased by the concomitant administration of epinephrine. Pharmaceutical compns. comprising an amide- and ester-linked local **anesthetic** and a **methanesulfonamide** compound, which may further include epinephrine, are also provided. Expts. were conducted to determine whether **ibutilide** would enhance the local **anesthetic** effects of **bupivacaine-HCl**. **Bupivacaine** elicited dose-dependent **anesthesia**. However, in the presence of **ibutilide** the potency of **bupivacaine** was increased 2.8-fold. **Ibutilide** alone as an adjuvant was inactive in eliciting **anesthesia**. However, **ibutilide** significantly increased the amount (or efficacy) of **bupivacaine anesthesia**, without increasing **bupivacaine's** duration of action. **Ibutilide** significantly enhanced the relative potency of **bupivacaine**, indicated by a significant leftward shift in the dose-response curve with respect to the dose-response curve of mice injected with vehicle and increasing doses of **bupivacaine**.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT